



## Materials: Introduction and Applications (Hardback)

By Witold Brostow, Haley E. Hagg Lobland

John Wiley and Sons Ltd, United Kingdom, 2016. Hardback. Condition: New. 1. Auflage. Language: English . Brand New Book. Presents a fully interdisciplinary approach with a stronger emphasis on polymers and composites than traditional materials books. Materials science and engineering is an interdisciplinary field involving the properties of matter and its applications to various areas of science and engineering. Polymer materials are often mixed with inorganic materials to enhance their mechanical, electrical, thermal, and physical properties. Materials: Introduction and Applications addresses a gap in the existing textbooks on materials science. This book focuses on three Units. The first, Foundations, includes basic materials topics from Intermolecular Forces and Thermodynamics and Phase Diagrams to Crystalline and Non-Crystalline Structures. The second Unit, Materials, goes into the details of many materials including Metals, Ceramics, Organic Raw Materials, Polymers, Composites, Biomaterials, and Liquid Crystals and Smart Materials. The third and final unit details Behavior and Properties including Rheological, Mechanical, Thermophysical, Color and Optical, Electrical and Dielectric, Magnetic, Surface Behavior and Tribology, Materials, Environment and Sustainability, and Testing of Materials. Materials: Introduction and Applications features: Basic and advanced Materials concepts Interdisciplinary information that is otherwise scattered consolidated into one work Links to everyday life application like electronics, airplanes,...



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